

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 1-30-2012
API #: 47-069-00080

Farm name: Roy Ferrell 3H Operator Well No.: 833220

LOCATION: Elevation: 1210' Quadrangle: Valley Grove WV

District: Triadelphia County: Ohio
Latitude: 8690' Feet South of 40 Deg. 05 Min. 00 Sec.
Longitude 14640' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	100'	100'	291 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	705'	705'	106 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2251'	2251'	915 Cu. Ft.
Date Permit Issued: 4/27/2011	5 1/2"	15499'	15499'	4356 Cu. Ft.
Date Well Work Commenced: 5/16/2011				
Date Well Work Completed: 8/15/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6667'				
Total Measured Depth (ft): 15499'				
Fresh Water Depth (ft.): 230' 350'				
Salt Water Depth (ft.): 970', 1179', 1330'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 685'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,897'-15,354'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,375* MCF/d Final open flow 189 Bbl/d
Time of open flow between initial and final tests 61 Hours *Calculated
Static rock Pressure 4,334* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-15-2012
Date

01/11/2013

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Were core samples taken? Yes _____ No _____

Were cuttings caught during drilling? Yes _____ No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

<u>Formations Encountered:</u>	<u>Top Depth</u>	/	<u>Bottom Depth</u>
<u>Surface:</u>			

(See Attached)

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PERFORATION RECORD ATTACHMENT

Well Name and Number: Roy Ferrell 3H (833220)

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
7/28/2011	14,972	15,354	7/28/2011	14,972	15,354	Slk Wtr	12,740	Sand	574,499	85.0
7/29/2011	14,497	14,879	7/29/2011	14,497	14,879	Slk Wtr	11,413	Sand	580,216	86.0
7/30/2011	14,022	14,404	7/30/2011	14,022	14,404	Slk Wtr	12,096	Sand	578,683	86.0
7/30/2011	13,547	13,929	7/30/2011	13,547	13,929	Slk Wtr	12,036	Sand	591,513	88.0
7/31/2011	13,072	13,454	7/31/2011	13,072	13,454	Slk Wtr	11,459	Sand	575,830	85.0
7/31/2011	12,597	12,979	7/31/2011	12,597	12,979	Slk Wtr	12,200	Sand	575,942	84.0
8/1/2011	12,122	12,504	8/1/2011	12,122	12,504	Slk Wtr	11,473	Sand	578,633	88.0
8/7/2011	11,608	12,029	8/7/2011	11,608	12,029	Slk Wtr	14,851	Sand	588,568	82.0
8/8/2011	11,172	11,554	8/8/2011	11,172	11,554	Slk Wtr	11,299	Sand	577,922	88.0
8/9/2011	10,697	11,079	8/9/2011	10,697	11,079	Slk Wtr	9,778	Sand	576,933	86.0
8/9/2011	10,222	10,604	8/9/2011	10,222	10,604	Slk Wtr	12,072	Sand	579,540	82.0
8/10/2011	9,747	10,129	8/10/2011	9,747	10,129	Slk Wtr	13,146	Sand	580,682	86.0
8/11/2011	9,272	9,654	8/11/2011	9,272	9,654	Slk Wtr	10,161	Sand	584,043	88.0
8/12/2011	8,797	9,179	8/12/2011	8,797	9,179	Slk Wtr	8,253	Sand	580,441	85.0
8/13/2011	8,322	8,704	8/13/2011	8,322	8,704	Slk Wtr	10,813	Sand	571,197	87.0
8/13/2011	7,847	8,229	8/13/2011	7,847	8,229	Slk Wtr	10,912	Sand	580,502	84.0
8/14/2011	7,372	7,754	8/14/2011	7,372	7,754	Slk Wtr	12,750	Sand	582,512	87.0
8/15/2011	6,897	7,279	8/15/2011	6,897	7,279	Slk Wtr	11,235	Sand	520,905	86.0

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LATERAL WELLBORE (no pilot hole associated with this well)				
Maximum TVD of wellbore:	6667 ft TVD @ 7049 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	120	120
SHALE	120	120	270	270
SHALE/SS/LS	270	270	330	330
SHALE	330	330	430	430
SHALE/LS	430	430	685	685
PITTSBURGH COAL	685	685	690	690
SHALE/LS	690	690	740	740
SS	740	740	770	770
SHALE	770	770	970	970
LS	970	970	1010	1010
SHALE	1010	1010	1160	1160
SS	1160	1160	1220	1220
SHALE	1220	1220	1430	1430
SS	1430	1430	1490	1490
SHALE	1490	1490	1566	1566
MAXTON	1566	1566	1640	1640
SHALE	1640	1640	1820	1820
BIG INJUN	1841	1841	2054	2054
SHALE	2054	2054	6350	6334
MIDDLESEX SHALE	6350	6334	6475	6441
GENESEO SHALE	6475	6441	6517	6474
TULLY LIMESTONE	6517	6474	6568	6509
MAHANTANGO SHALE	6568	6509	6803	6623
MARCELLUS SHALE	6803	6623		
TD OF WELL			15499	6544

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